FARMINGTON, MO., SEPTEMBER 16, 1909.

and try to get back to old condi- and his own critics. tions, but the people being so well If Dr. Cook's claims are impossatisfied with the working of the sible, in the estimation of Com- from the lowest depths of the earth local option law were in no mood mander Peary, may the world not at that time, 54,000,000 years ago. to make any change. No election be justified in the conclusion that And somewhere from below came was held throughout the county. his own claims are just as imposwhich went dry four years ago, sible! Has the world any more and so remains under local option evidence at this time of the truth- bit of porphyry. regulations.

President Taft has started on his 13,000 miles of travel through the South and West, for which Congress voted him the munificent sum of \$25,000 to defray his traveling expenses. He has promised to visit every State during his administration, and on his present itinerary expects to cover about three fourths of them. He will do a good deal of speech making, delivering his first at Boston last Tuesday night, in which he defended the central national bank system, and declared that the passage of a tariff bill had removed a gets in close touch with western ungenerous assault on Dr. Cook's Stated briefly, large quantities sentiment on the apward revision honor and veracity. of the tariff, and will learn that the tariff promises to be a very dis- GOVERNOR JOHNSON IS turbing factor in the next campaign As to the central bank system, he will find the feeling of enor Johnson is believed to be dvthe people to be that the money lng at St. Mary's Hospital, where power of the country is already too strongly intrenched. But he will be surrounded at all times by his physician at the hospital to-night court retainers and flatterers and gave out the following statement: hear little but their plaudits, while the populace will give due honor Temperature subnormal." and courtesy to the dignity of his great office.

### COOK AND PEARY.

The reported discovery of the north pole by two eminent explorers, Dr. Cook and Commander Peary, coming within a week of each other, with the dates of discovery a year apart, has started a bitter controversy between the partisans of the two eminent men, involving questions of veracity, distrust and unseemly jealousy that is cration, according to the surgeons anything but creditable. If this who witnessed the work, and Govwere confined to the partisans of ernor Johnson's conditon is regarded the two men, it would not be so to-night as precarious. bad, but Dr. Cook was the first to operating table for two hours and ite mountains a deposit of sand few days later Commander Peary soon as he had recovered from the LaMotte sandstone and in which showed up from the frozen region, effects of the anaesthetic, his first the drill men "bottom" all drill declaring that he had accomplished words were for Mrs. Johnson, who holes, and on top of this deposits of the long sought feat of standing came to his bedside when she heard dolomite, or limestone, and shale, that her husband was conscious, in the cracks and crevices of which on the exact northern axis of the earth, and found that prior claim coming from the Governor's room, there were several inundations by had been made, he could not con- said he was resting as comfortably tain himself until the evidence and as could be expected and that she records kept by each were scruti- confidently hoped for his speedy renized by competent scientists to Doctor William Mayo refused to hooted the claim of Dr. Cook, and after the Gevernor's repalse todeclared that the latter "had given night. the public a gold brick." Dr. Cook, on the contrary, when Commander Peary's report first reached dead in his room on the 3d. It is the public, declared his belief in supposed he died of heart disease. He was a native of Ste. Genevieve the claim and expressed his grati- and was 64 years old.

the Peary expedition. he has proof that Dr. | Cook's claim weather continues fine, that also is a fake, but many eminent will be cut.

Governor Hadley has appointed explorers of the north sens and the following named gentlemen as scientists believe the story and the delegates from this congressional partial evidence which Dr. Cook district to the Waterway Conven- has given them. If his story is tion to be held in New Orleans Oc- not true it will all come out in the tober 30th to November 3d. Hon. final examination and investigation Edward A. Rozier of Farmington, of the evidence which he says he Congressman Politte Elvins of El- has kept to submit to the scienvins, former State Auditor W. W. tifle societies. Why should Com-Wilder of Ste. Geneuieve, former mander Peary be so hasty in at-Congressman M. E. Rhodes of Postempling to discredit his rival? tosi and Hon. John H. Reppy of His choleric attitude toward Dr. Cook and too apparent jealousy and chagrin that another should have In the local option election at reached the coveted goal and any ago, accepting the estimates of the and forth through the In Motte Fredericktown last Saturday, that nonneed the fact before he did. town concluded by a decisive may places him at a disadvantage in the jority, 448 to 158, to remain dry, eyes of all unprejudicted minds, being recovered from the dissemin changes took place which brought The town has been dry foy four when compared with the confident, ated deposits at the rate of approxi- about the lead deposits being worked years, and the wets concluded they dignified and manly attitude of Dr. mately \$10,000,000 yearly. would petition for another election Cook toward Commander Penry

> fulness of his claim than it has of the verity of Dr. Cook's! May both are wrong? As it stands at oldest land area in the United posed to believe that both men practically all the Western Hemissucceeded, and that whether both phere. or one did, to America belongs men, nor in Commander Peary's ses of these rocks.

### THOUGHT TO BE DYING.

Rochester, Minn., Sept. 15-Govhe was operated on to-day for a deep intestinal abscess.

Doctor C. F. McNavin, house

"Governor Johnson's condition very bad. Pulse irregular and bad.

three hours on the operating table times the geologists do not know, the theory of Arthur Winslow, igneous rocks did not contain as to-day, was believed to be doing but they are very certain that about which has been expanded to some large percentages of zinc as the anwell, and a rapid recovery was expected until about 9 o'clock to-night granite was carried away from this

adversariant that about extent above by the addition of facalyses show, but this explanation tors discovered by Dr. Buckley. In is cast aside, since to question the when he suffered a relapse.

Mrs. Johnson accompained him to the hospital and was with him until the operation began. After it was over she was allowed to see him in his room.

He was operated on in St. Mary's Hospital Doctor by William J. Mayo, assisted by Doctor Charles day it still is being deposited by the ore-bearing strata. Second, a prev- to whether or not there may be ore

Mayo. It was a difficult and serious op-

Later in the day Mrs. Johnson,

determine their correctness, but make any personal statement until

Leon Jokerst, a prominent merchant of Ste. Genevieve, was found

fication at the success attained by A Madison county farmer has cut his third crop of alfalfa and the the areas of disseminated lead de- the Archean (granite) floor, and al- to Swansea, Wales, for refinement. Commander Peary gives out that fourth one is growing, and if the posits are so limited in Southeast so by the Farmington anticline to Silver is found in practically all

# Times GRANITE HILLS FURNISH LEAD FOR ST. FRANCOIS COUNTY ORE

Process Begun 54,000,000 Years Ago Still Continues Several Oceans, a Coal Field, and Other Unusual Factors Made Possible the Only Extensive Disseminated Deposits in the World .- Vast Quantities of Zinc Have Disappeared From District.

#### ARE THERE OTHER MINERAL BODIES BELOW THE SANDSTONE?

[EDITOR'S NOTE-It is a long stretch to go back 54,000,000 years to find the beginning of the St. Francois Councy lead deposits, but that is when they began, according to the geologists, and in the following article the they began, according to the geological formations, and the generations is of the lead ores, are described in bandling such a technical matter, the disappearance of vast quantities geological formations, and the general anguage as popular as is possible to The very interesting question as to to fix and the additional question bodies far deeper than any thus far raised, but as yet there have been notions. Attention is called to the fixed to th mined in the Flat River country, are satisfactory answers to these ques-act that the St. Francois Mountains, lying to the west and south of Flat River, probably are the oldest bits of land surface in the United States.]

The igneous rocks, which are still on hand in the red granite and porplayry of the St. Francois Mounthe lead and the zinc, which to-day are present in small quantities in every speck of granite and every

tions which afterward swept over

In the granites and perphyries of whatever honor is due the achieve- these mountains there existed at ment. Let judgment be held in that time the lead now found disabeyance until the question is fin- | Flat River district. The granite ally decided by men of science who probably contained an average of are capable of determining the 0.00219 per cent of lead and 0.0021 claims of each. There is nothing per cent of zinc, and the rhyolite, to be gained by this unseemly fend or perplyry, 0.00502 per cent of lead disturbing element from business. between the partisans of the two are the percentages shown by analyand 0.01705 per cent of zinc. These

> lution in the Cambrian ocean, Afterward, the lead in solution was conthese early oceans.

### Lead in the Granite:

According to Buckley, one square mile of granite, 1,400 feet thick, would yield 68,000 tons of lead. Just immediate district and dissipated in the other half trict, Mr. Winslow has this to say: remained to be concentrated, depos- "One of the principal determining ited, dissolved again, and again causes, (of the disseminated de- has either been transported outside concentrated, deposited and dis- posits) we think, was the original the area by water or has been carright for its final deposition in the the rock. This is often observable posited. "This," says Dr. Buck-Bonne Terre limestone, where to- now, and especially characterizes ley, "naturally opens a question as cess will continue indefinately.

eroded about two-thirds of the area of the St. Francois Mountains and had practically disappeared, leavin the cracks and crevices of which were left large quantities of galena. ocean waters, and during all this long period of time the lead, held in solution by the water, was being

concentrated.

waters of the granite bills and the Just about fifty-four million years lead-carrying waters flowing back geologists at their face value, St. sandstone, and issuing as springs, Francois county first came into came into contact with the arms of possession of the lead which is now the Pennsylvanian sea, chemical to-day. The heavier solutions of ead had congregated in the La-Motte sandstone and being forced by ydrostatic pressure into the lower ortions of the Bonne Terre limetone, which lies just above the sandstone, the lead was deposited.

#### Lead Being Deposited Now.

This process is continuing today The waters from the la Motte sandstone show the presence of lead in almost the same percentages in Finally these igneous rocks solid- which it is present in the granites ified, forming the St. Francois and porphyries. Wherever the connot the final investigation and sum- Mountains, which at that time rose ditions are right, and particularly ming up of the records kept by each the country. And these mountains game matter, as is shown by its show that the claims of both are probably are the oldest in the United darker character, the lead held in good, and may it not show that States. At least their peaks are the the waters of the sandstone is precipitated as very small particles of present, a discerning public is dis- States, having escaped the inunda- galena, and thus the disseminated deposits are formed.

> In this process, continued through deposits taking place probably about 19,000,000 years ago, we see many causes combining, and it probably was because of these numerous and peculiar combinations of causes that there was created in the Flat River the Southeast, as elsewhere, how Company 1,976 ounces per ton of district practically the only dissemmated lead ore body in the world. Similar geological circumstances did not exist at other points on the earth's surface.

three or four oceans, the granite fields probably had also a localizing of the granite and porphyry were des bills known as the St. Francols influence. composed and eroded during the 18.- Mountains, and the coal fields of 000,000 years of the pre-Cambrian Southern Illinois were the deterperiod, and the lead was held in see mining factors in the disseminated deposits of the Flat River district. The Illinois coal fields furnished a centrated in cracks and crevices, greater part of the organic matter some of it deposited and again taken which was necessary to the precipiup by other waters which followed tation and deposit of the lead from the waters holding it in solution.

### Hard Problem for Geologists.

how many square miles of granite lem with geologists. Gradually, all offer explanations. Governor Johnson, after nearly were eroded during pre-Cambrian of them have practically accepted were eroded during pre-Cambrian the theory of Arthur Winslow, igneous rocks did not contain as

solved until conditions became open structure or texture of part of ried to great depths and there deunderground waters, and the pro- alence of organic matter in certain bedies in some as yet unexplored strata or along certain horizons, as formation underlying the Bonne After the Cambrian ocean had indicated by a darker color now Terre limestone. This question is often seen, had doubtless influence, not settled and further investiga-Further, the various shale beds prob- tion will be required to determine it Old Silas Johnson Homestead ably limited and guided the solu-conclusively.

report his discovery, and when a operating table for two hours and ite mountains a deposit of sand channels for the flow of the ore bodies in the Flat River discovery, and when a fifty-three minutes, and at noon, as which is now recognizable as the nished channels for the flow of the ore bodies in the Flat River dis-solutions. The sheets of galena trict. There is no evidence from and all kinds of fruit. frequently found in these crevices practical sources that such ore prove that the solutions followed bodies dist. Diamond drill holes them. These were sufficient to sup- have been sunk through the sandply the ore of higher-lying dissem- stone and into the granite, and if inated bodies. The contraction and there is an ore bearing formation disappearance of the crevices with below the sandstone, it has never depth, make them inadequate for the been located. deep deposits such as prevail along Flat River.

It was during the Pennsylvanian refer to the underlying sandstone, period, when the Pennsylvanian which is in close proximity, as the St. Joe Company, known as the CAPITAL STUCK : : 860,000.00 sea, bearing large quantities of or. solution carrier. This is saturated Hoffman. ganic matter, swept in covering the with water, much of which flows digreater portion of Southeast Mis. rectly from the decomposing cryssouri, that the conditions favorable talline (granite) rocks. The sandto the permanent deposit of the lead stone itself contains particles and quantities in the Flat River district. were established. It required the fragments of these rocks, which More or less copper is associated

complish the precipitation of the "A downward flow of water to- rarely saved. The St. Joe Lead lead, and it is because of the re- ward Flat River and Bonne Terre is Company has at times recovered COLLECTIONS A SPECIALTY. quirement of such conditions that induced by reason of the slope of nickel and cobalt, shipping the matte the east. The water is thus under the ore of the Flat River district,



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through the limestone and where ing recovered annually. The aversultable physical and chemical con- age for the district is about one a period of 51,000,000 years, the chief ditions are reached the deposition ource of silver to the ton of lead of the ore will take place.

"We are inclined to think that the ever, the Coal Measure epoch fur-concentrates. nished probably the most favorable. The copper percentage is 0.30 per Summed up, it may be said that The proximity of the Illinois coal

### What Became of the Zinc?

These are the opinions of the exspect. They do not account for the disappearance of the zinc, which is quantities than is the lead. Somequantities than is the lead. Some-where St. Francois county has a M. Laakman. vast quantity of zinc which belongs to it by reason of prior ownership

The general belief is that the zinc

Probably it will be a long time be-"Numerous vertical crevices fur- fore efforts are made to locate deeper

There is considerable zinc in the Leadwood section, particularly in "For these ores we are inclined to Mine No. 4 of the Desloge Company, and in Mines Nos. 12 and 14 of the DIMA UI IAAMINUUU

### Silver and Other Metals.

In addition to lead and zinc, other metals are found in approciable presence of organic matter to ac- must hold more or less of the metals. with all the lead ores, but it is very When the lead-burdened ground pressure sufficient for it to rise up about \$25,000 worth of this metal be-

concentrates.

The Doe Run Company has analformation of the ore is still in pro- yzed ore which ran as high as 2,065 gress; the finding of galena on cal- ounces of silver to the ton of concite crystals is evidence of this. In centrates, and the Federal Lead

conditions. Decomposing organic cent in the concentrates, the lead matter was doubtless introduced in- average for the district being 5.75 to the rocks through solutions, per cent in the crude ore, and 65.85 per cent in the concentrates (To be continued.)

Why? From a small beginning the sale They fail only in one re- Remedy has extended to all parts of and use of Chamberlain's Cough the United States and to many foreign countries. Why? Because present in the granite in greater it has proved especially valuable for

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Frying Chickens	121
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